



MILITARY

Inventing the Future of Wire and Cable



RADXL 150A MIL-Plus

MIL 16878/16 Battery Cable

RADXL 150A MIL-Plus is a high performance battery cable designed specifically for military vehicles. It meets both Mil 16878/16 and SAEJ1127 SGX requirements. As engine compartments grow smaller, operating temperatures get hotter and electronics proliferate under the hood, Radxl 150A MIL-Plus battery cable fulfills these demands.

Radxl 150A MIL-Plus battery cable has an irradiated cross-linked polyolefin insulation able to withstand temperatures of 240°C and higher. Radxl 150A MIL-Plus can provide the solution to the complex demands of the current military environments. Thinner and lighter than other conventional battery cables, it is flexible enough for easy routing yet tough enough to withstand the roughest environments.

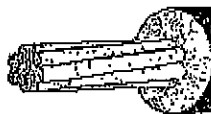
The end result is a military vehicle wire ideally suited to applications where a combination of flexibility, long life and performance is required.

Benefits and Features

Thin, uses up to 40% less space
Rated at 1000 Volts
Flexible, Fluid Resistant
High Abrasion Resistance
-55°C to 150°C Temperature Range
Superior Cut + Strip Processing
RoHS Compliant

Applications

Including but not limited to:
Batteries Military Equipment
Starters Military Vehicles
Power Distribution
Ground Wire



Champlain Cable Corporation

Part Number	Standard Conductors Tinned Copper	Nom. Dia of Conductor		Insulation Thickness		Nom. OD		Finished Weight (lbs/mft)	Ampacity
		In.	mm.	In.	mm.	In.	mm.		
150APLUSBMG	10 (37/27)	.111	2.82	.032	.81	.174	4.42	39.8	80
150APLUSBNM	8 (168/30)	.169	4.29	.037	.94	.242	6.14	65.4	108
150APLUSBPL	6 (133/27)	.210	5.33	.039	.97	.286	7.28	100.7	155
150APLUSBRL	4 (133/25)	.266	6.81	.041	1.04	.349	8.86	155.3	190
150APLUSBSP	2 (665/30)	.342	8.69	.039	.99	.419	10.64	243.1	255
150APLUSBTN	1 (259/25)	.378	9.60	.047	1.19	.471	11.18	301.2	283
150APLUSBUS	1/0 (1045/30)	.431	10.95	.045	1.14	.521	13.23	370.2	339
150APLUSBYT	2/0 (1330/30)	.475	12.07	.053	1.35	.580	14.73	472.1	360
150APLUSBYV	3/0 (1672/30)	.535	13.59	.064	1.63	.662	16.81	599.2	451
150APLUSBZW	4/0 (2109/30)	.600	15.24	.096	2.44	.795	20.19	791.6	529

*Ampacity 150°C rated single-insulated conductor in free air at 40°C ambient air temperature.



Champlain Cable Corporation
175 Hercules Drive
Colchester, Vermont 05445

P 800.451.5162
F 802.654.4224
sales@chamcable.com



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RADXL 150A

Property / Attribute		SAE J-1127 Req.	RADXL 150A 6 AWG Typical Performance
Flex Life		NA	NA
Flex Test	Per Modified ISO 14572		
Dielectric Strength		1 kV/1 min.	5 kV 30 min.
Dielectric Test	Wet Dielectric after 6 hour soak		
Flame Resistance		70 Sec.	1 sec.
Flame Test	Maximum time after burn		
Thermal Performance		-40°C	-55°C
Cold Bend	4 hours at temperature no cracks / breakdown	155°C	180°C
Temperature Rating	240 Hours heat aging	125°C	150°C
Temperature Rating	3000 Hours		
Mechanical Properties		1500	2350
Tensile	Minimum, psi	150	300
Elongation	Minimum %	NA	18
Abrasion	Sand/Paper Resistance Length in.	NA	NA
Abrasion	Scrape Cycles	NA	NA
Pinch	Pounds		
Ozone Resistance		Pass	Pass
Ozone Test	192 Hours @ 6500 ppm no cracks		
Fluids		15% Max.	<1.00%
Engine Oil	ASTM D471 IRM-902	23 +/- 5 °C	
Gasoline	ASTM D471 Ref. Fuel C	50 +/- 5 °C	15% Max. <1%
Brake Fluid	SAE J-1703	23 +/- 5 °C	None <1.5%
Ethanol	85% Ethanol + 15% ASTM D471, Ref. Fuel C	23 +/- 5 °C	15% Max. <1%
Diesel Fuel	ASTM D471, 90% IRM-903 + 10% p-xylene	23 +/- 5 °C	15% Max. 1.30%
Power Steering	ASTM D471, IRM-903	50 +/- 3 °C	30% Max. 1.60%
Auto Transmission	Clgco #33128 SAE J1811	50 +/- 3 °C	25% Max. <1%
Methanol		50 +/- 3 °C	15% Max. <1%
Engine Coolant	50% Ethylene Glycol + 50% distilled Water	23 +/- 5 °C	5% Max. <1.4%
Battery Acid	H2SO4 Specific Gravity = 1.280 +/- .005		

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